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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/762,135	01/20/2004	Frank J. Cosenza	03-2776	4133
8840 7590 08/23/2007 INTELLECTUAL PROPERTY ALCOA TECHNICAL CENTER, BUILDING C 100 TECHNICAL DRIVE ALCOA CENTER, PA 15069-0001			EXAMINER	
			ALI, MOHAMED HATEM	
			ART UNIT	PAPER NUMBER
			3693	
			MAIL DATE	DELIVERY MODE
			08/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/762,135	COSENZA ET AL.		
		Examiner	Art Unit		
		Mohamed H. Ali	3693		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	e correspondence address		
A SHO WHIC - Exter after - If NO - Failu Any o	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES as ions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Period for reply is specified above, the maximum statutory period ver to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  ATE OF THIS COMMUNICA	ON. be timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).		
Status					
2a)⊠	Responsive to communication(s) filed on <u>July 3</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, p			
Dispositi	on of Claims				
5)	Claim(s) 1,2,5-8 and 11-13 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-2, 5-8, and 11-13 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or are subject to restriction and/or are specification is objected to by the Examine The drawing(s) filed on is/are: a) according a constant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The oath or declaration is objected	vn from consideration.  r election requirement.  r.  epted or b) objected to by the drawing(s) be held in abeyance. Sion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notice 3) Inform	t(s) se of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4)  Interview Summa Paper No(s)/Mai 5)  Notice of Informa 6)  Other:	I Date		

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#### **DETAILED ACTION**

### Acknowledgement

1. This office action is in response to Applicant's communication with remarks to the claims filed on **July 26, 2007**.

Claims 3-4 and 9-10 have been cancelled.

Amendments to the claims 1, 2, 6, 8 and 12 are made in response.

As such claims 1-2, 5-8 and 11-13 are pending in the application.

2. The following is a **final action on merits. Claims 1-2, 5-8, and 11-13** are pending.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-2, 5-8, and 11-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Nakamura et al* (US 6,264412 B1) in view of *Smith* (3,252,493).

As per claim 1, Nakamura et al teaches a spacer figured (bushing 13) to be secured to a panel (Honeycomb panel 11) of a predetermined thickness with a bore (through-hole 12), comprising:

a first piece (first cylindrical member 14) having a generally tubular body portion of a reselected first piece height, with a first end and a second end (as illustrated in Fig. 3), the second end having a preselected included angle, (see bottom 14a with angle) with respect to an axis (unmarked vertical dotted axis, see Fig.1) that passes through a bore of the first piece (14);

a second piece (second cylindrical member 15) having a first end, an annular ridge (upper part of 15a) which is located adjacent to the first end and a flange (flange 19) which is located adjacent to the annular ridge (15a), the first end having a preselected second piece height, and the reselected included angle, (15a with angle) with respect to the axis and a seat (15a) which is adapted to receive a head of a fastener (fastener head 21);

wherein the reselected included angle ranges from about 80 degrees to about 130 degree (a value of about 180 degrees [14a and 15a with angles] inherently angle could be variable from about 80 degrees to about 180 degrees with machine tool cutter during boring/drilling of the cylindrical piece [14] inside end part (14a) to fix with standard bolt (angle head) available in the market and known to one of ordinary skill in the art of mechanical cutting/drilling/boring tool industry).

However, Nakamura et al fails to explicitly teach the second end of the first piece is sandwiched between the first end of the second piece and the annular ridge.

Smith in the same field of invention discloses the concept of having two spaced sheets including a second end (22) of a first piece (20) that is sandwiched between a first end (18) of a second piece (15) and an annular ridge (17).

From this teaching of Smith, it would have been obvious to one of ordinary skill in the art at the time of invention was made to modify the panel fixing device of Nakamura to include the process of sandwiching the second end of the first piece between the first end of the second piece as taught by Smith in order to provide a sandwich type panel structure that can be installed with a minimum of panel preparation and with the simplest of tools.

As per claim 2, Nakamura et al discloses that the preselected second piece height is about 20/% to about 40% of the first piece height (second piece has a height from about 20% to about 40% of the first piece [as illustrated in Fig. 2]).

As per claim 5, Nakamura et al discloses that the flange is secured to the panel (11) with an effective amount of an adhesive (adhesive 20).

As per claim 6, Nakamura et al discloses that the first end of the first piece (14) is secured to the panel by curling the first end of the first piece in to the panel (via engaging flange section 17).

As per claim 7, Nakamura et al discloses the flange has a preselected shape a circle (via flange 19).

Claim 8 is rejected for similar rational of claims 1 and 2 above.

Claims 11 – 13 are rejected for similar rational of claims 5 – 7 above.

As per claims 1 and 8, Applicant is reminded again that the recitation that an element is "adapted to" perform a function is not a positive limitation but only requires the ability to so perform. It does not constitute a limitation in any patentable sense. In re Hutchison, 69 USPQ 138.

# Response to Arguments

5. Applicant's arguments filed on July 26, 2007 have been fully considered but they are not persuasive.

Applicant agues, as in the following two paragraphs "neither Nakumura or Smith disclose or teach all of the elements of the currently pending claims. The claims have been amended to include that the reselected included angle ranges from about 80 degrees to about 130 degrees. The structure and shape of angle provided by the two pieces of the panel spacer provide a stronger attachment between the two-piece of the spacer to facilitate placement of the fastener".

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"Neither the Nakumura or Smith references teach a panel spacer having an angle from about 80 degrees to about 130 degrees. The Nakumura reference relied on by the Examiner for the teaching of this particular angle only has an angle of about 180 degrees (see the figure of Nakumura). There is no teaching of any other angles with respect to the axis that passes through the bore of the first piece in this reference".

The Examiner respectfully disagrees. It is assumed and taken about 180 degrees 14a) from the Fig.2 or Fig.3 at the bottom end surface related to the shape of the bolt head (21 of Fig.2). The bottom end surface or shape could be flat or tapered with range from about 80 degrees to about 180 degrees (flat) related to the cutter/driller end and as required for any standard angled head bolts (cap screw or stud bolt, Fig.8 of smith) as available in the market or known to any one ordinary skill of the art (mechanical cutting tools users). It is inherent with the cutting tools to shape the end surface of the tubular boring and crystal clear to any ordinary skill of the art of the mechanical cutting tools users to make taper or flat (80 degrees – 180 degrees about) end boring/drilling (14). Moreover, angle change ranging from 80 degrees to 180 degrees will not affect much with the stronger attachment of two pieces.

Applicant's arguments having been found unpersuasive, the rejection has not been withdrawn.

#### Conclusion

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6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Hazelman (6,077,009) discloses Blind fattener with high strength blind and high clamp and High shear load resistance.

Worthing (4,817,264) discloses the axially collapsible fastener.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mohamed H. Ali whose telephone number is 571-270-3021. The examiner can normally be reached on 8.00 to 5.30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, James Kramer can be reached on 571-272-6783. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Mohamed H Ali Examiner

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